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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/558,727	11/28/2005 Hiroyuki Kanda		20241/0203623-US0	7063
7278 DARBY & DA	7590 03/17/200 RBY P.C.	EXAMINER		
P.O. BOX 770	_	SPEER, TIMOTHY M		
Church Street S New York, NY		ART UNIT	PAPER NUMBER	
			1794	
			MAIL DATE	DELIVERY MODE
			03/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Application	on No.	Applicant(s)				
		10/558,72	27	KANDA ET AL.				
	Office Action Summary	Examiner		Art Unit				
			M. SPEER	1794				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the	cover sheet with the c	orrespondence ad	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 1.136(a). In no evo od will apply and w cute, cause the app	IIS COMMUNICATION ent, however, may a reply be tin II expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) filed on 02	December 2	ากล					
•	Responsive to communication(s) filed on <u>02 December 2008</u> . This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) <u>1-11</u> is/are pending in the application	on.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	→ 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed.							
	5)∐ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
-	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and	l/or election re	equirement.					
	on Papers		•					
	•							
•	The specification is objected to by the Exami							
10)	The drawing(s) filed on is/are: a) ☐ a		-					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) 🔲 Notic 3) 🔯 Infori	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>01/13/09</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 01/13/09 has been considered and made of record.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 3-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukherjee (USPN 4,959,257) for reasons of record in the Office Action dated 09/03/08.
- 4. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki (USPN 7,309,531) for reasons of record in the Office Action dated 09/03/08.

Response to Arguments

- 5. Applicant's arguments filed 12/02/08 have been fully considered but they are not persuasive. With respect to the applied prior art, applicant asserts that both Mukherjee and Suzuki teach away from the presently claimed thickness of 2 to 9 nm. This argument has been fully considered, but is not found to be persuasive.
- 6. With respect to Mukherjee, applicant asserts that Mukherjee teaches thicknesses of 10 to 60 nm and, thus, teaches away from the presently claimed range. This is not persuasive, since Mukherjee simply states that "[t]ypically the sputtered layer has a thickness of 10 to 200 nm" (col. 2, lines38-39). Thus, the disclosure of Mukherjee is merely illustrative and not limiting.

Clearly, there is no disclosure that teaches away from films having thicknesses outside of the "typical" range. Accordingly, applicant's argument is not persuasive.

- 7. In the present case, although the claimed range and the prior art range do not overlap, the ranges are close enough (9 nm presently claimed and "typically" 10nm disclosed in the prior art) that one skilled in the art would have expected them to have the same properties. Thus, it is the Examiner's position that the present claims are obvious in view of Mukherjee.
- 8. Regarding Suzuki, applicant asserts that Suzuki teaches away from the claimed range of 2 to 9 nm, since Suzuki teaches a thickness of 10 to 500 nm. Suzuki teaches that the thickness is "preferably 10 to 500 nm" (col. 10, line 53). Thus, the disclosure of the 10 nm value is merely illustrative and not limiting. By disclosing the range as "preferable" Suzuki clearly envisages thicknesses outside of the disclosed range. This disclosure in no way constitutes a teaching away from the presently claimed range. Accordingly, applicant's argument is not persuasive.
- 9. In the present case, although the claimed range and the prior art range do not overlap, the ranges are close enough (9 nm presently claimed and "preferably" 10 disclosed in the prior art) that one skilled in the art would have expected them to have the same properties. Thus, it is the Examiner's position that the present claims are obvious in view of Suzuki.
- 10. In light of the above, applicant's arguments filed 12/02/08 have been fully considered but are not found to be persuasive.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY M. SPEER whose telephone number is (571)272-8385. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L. Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy M. Speer/ Primary Examiner Art Unit 1794